Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P634541

Luminaire Tested: GWS-SA3B-830-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Report Generated By 670246102 / DESKTOP-G35701P

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P634541
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab:	COOPER LIGHTING SOLUTIONS
Issue Date:	1/10/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWS-SA3B-830-U-T3R-W-GRSWH
Description:	GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source:	(48) 3000K CCT, 80 CRI LEDS
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7244.3 lumens
Efficiency:	N/A
Efficacy:	106.1 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G1

Input Watts (W):	68.3
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	0
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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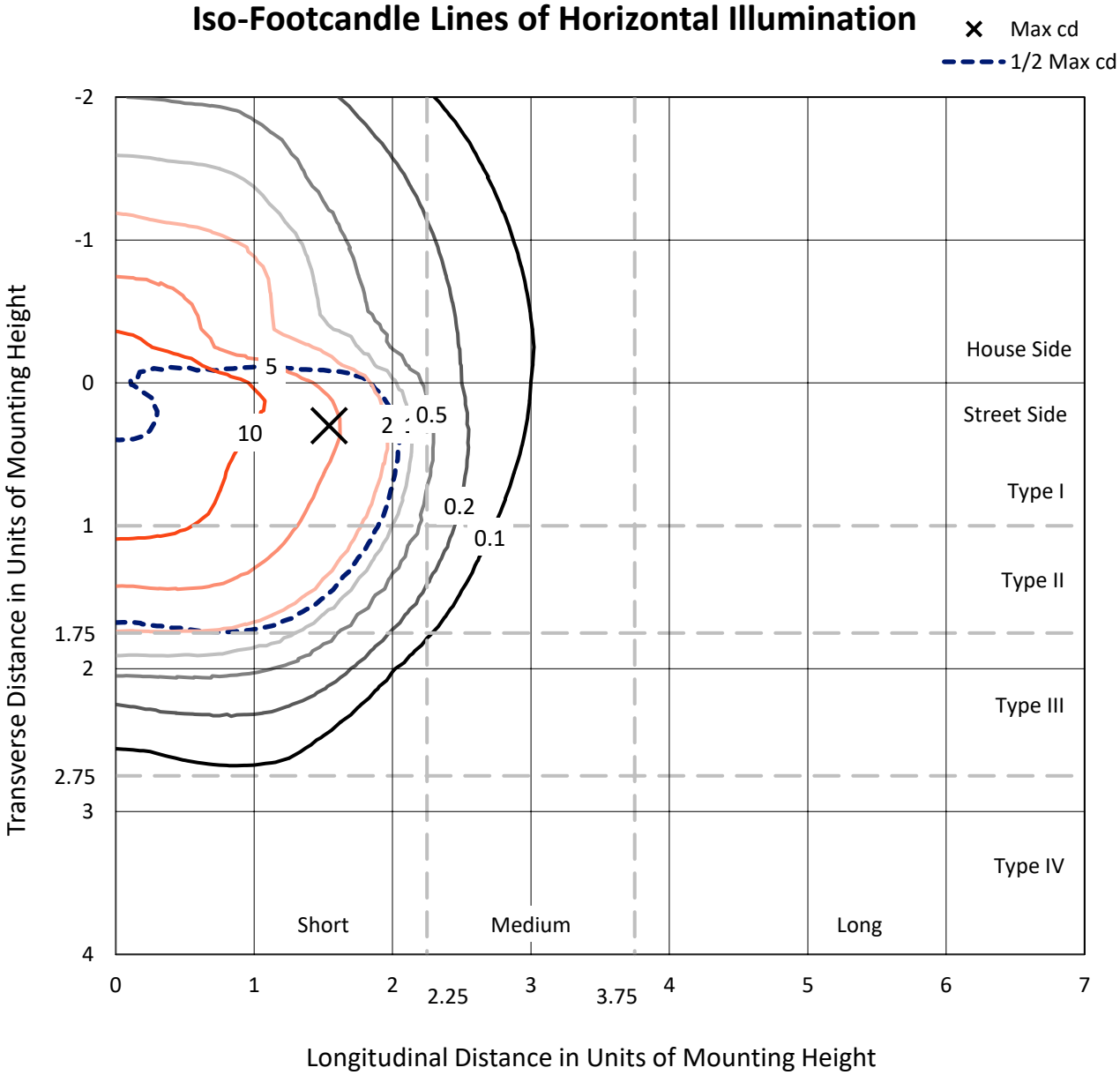
REPORT NUMBER: P634541
CATALOG NUMBER: GWS-SA3B-830-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination



Based on 10 foot mounting height. Maximum calculated value = 18.1 fc
Type II - Short - N/A

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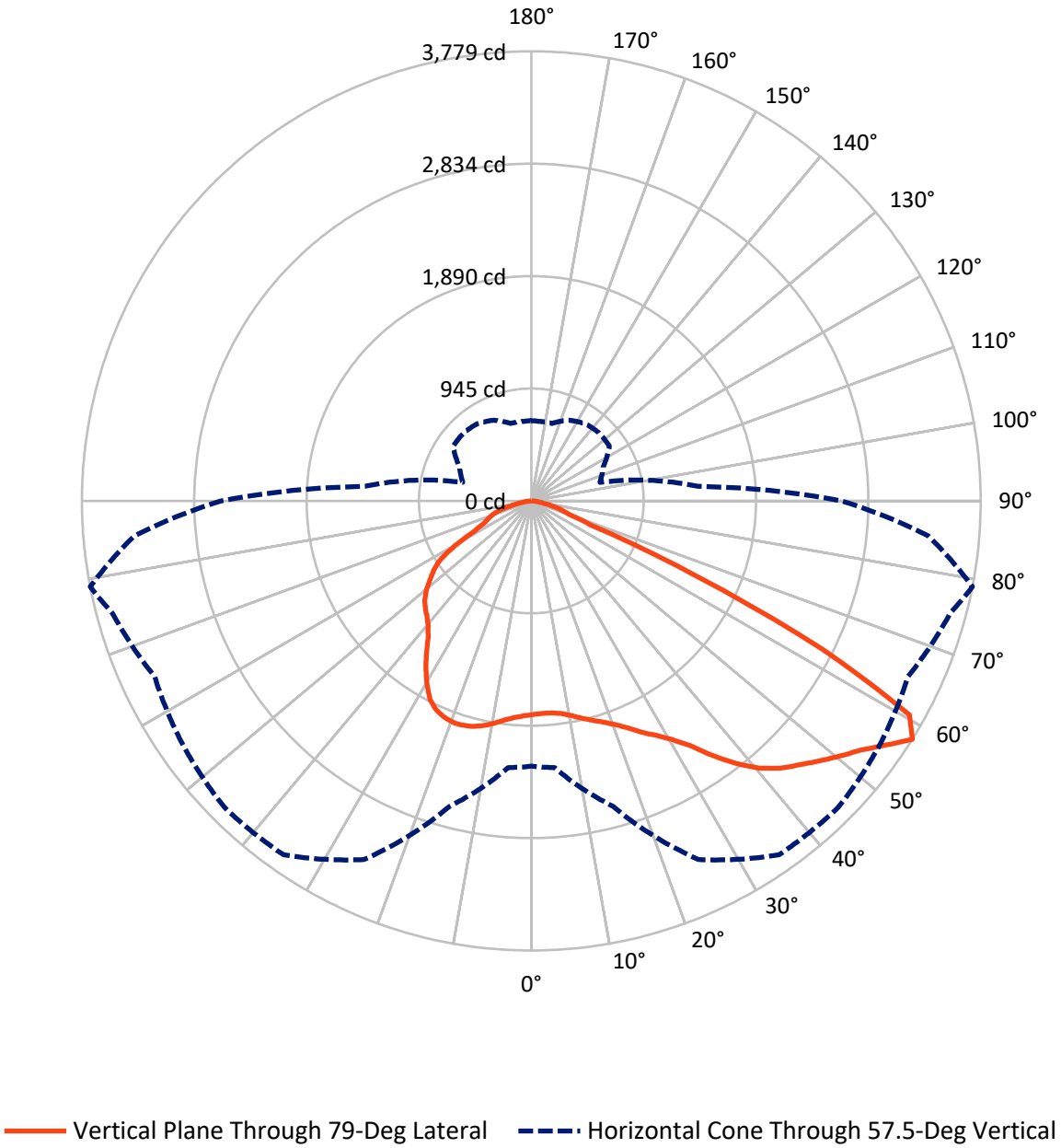
Luminous Intensity Polar Plot



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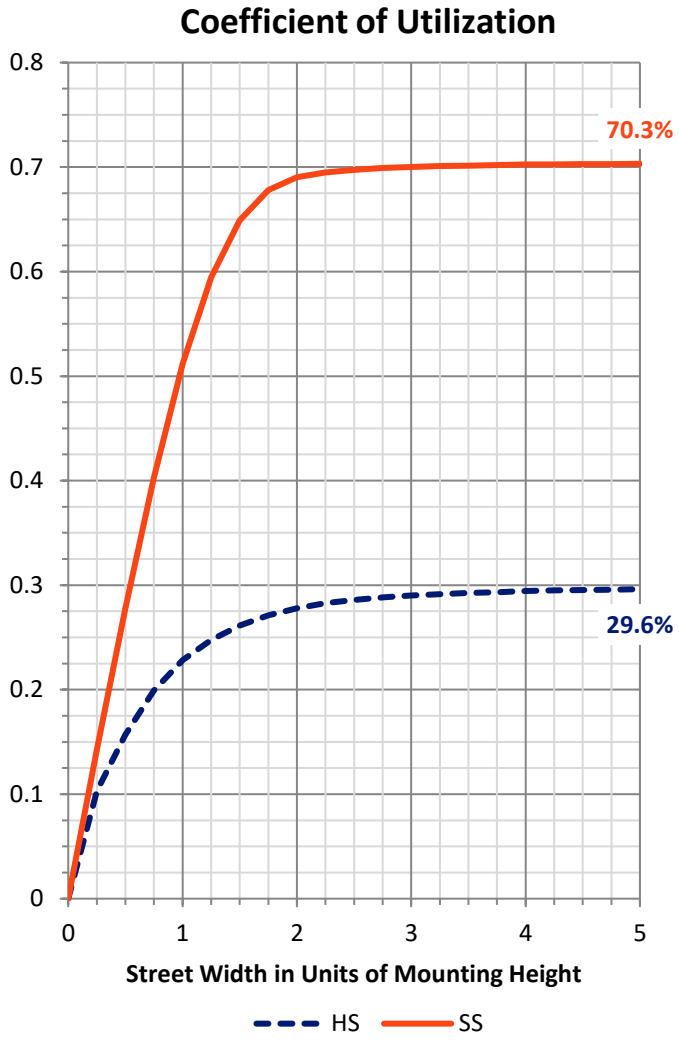
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2153.4	0.0	2153.4
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	5090.9	0.0	5090.9
	% Fixture	70.3	0.0	70.3
Total	Lumens	7244.3	0.0	7244.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	2.3
10°-20°	462.0	6.4
20°-30°	783.2	10.8
30°-40°	1198.8	16.5
40°-50°	1598.4	22.1
50°-60°	1846.1	25.5
60°-70°	959.3	13.2
70°-80°	203.9	2.8
80°-90°	26.4	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7244.3	100.0
0°-180°	7244.3	100.0



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REPORT NUMBER: P634541
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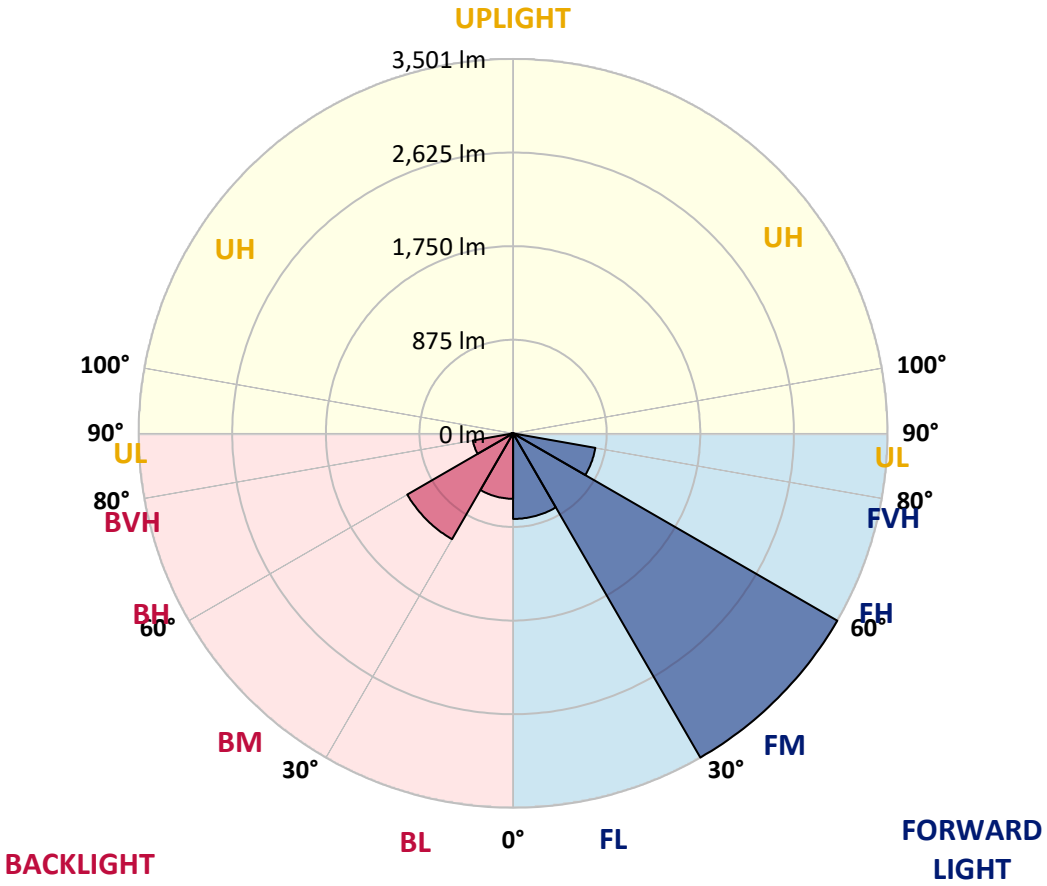
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	799.9	11.0			
FM	(30°-60°)	3500.7	48.3			
FH	(60°-80°)	781.1	10.8			G1/1800
FVH	(80°-90°)	9.2	0.1			G0/10
BL	(0°-30°)	611.5	8.4	B2/1000		
BM	(30°-60°)	1142.6	15.8	B2/2500		
BH	(60°-80°)	382.1	5.3	B1/500		G1/500
BVH	(80°-90°)	17.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
Type II Short



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REPORT NUMBER: P634541
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	*1795.3*	1795.3
2.5°	1713.6	1710.0	1711.2	1715.9	1733.7	1746.7	1760.4	1772.8	1784.6	*1788.2*	1791.2
5°	1652.6	1646.0	1647.8	1655.5	1676.2	1698.2	1722.5	1752.1	1780.5	*1790.0*	1802.4
7.5°	1609.3	1608.1	1611.1	1622.9	1644.9	1665.6	1697.0	1739.0	1788.2	*1804.2*	1826.1
10°	1551.9	1549.5	1561.3	1585.6	1621.8	1654.9	1692.2	1742.0	1810.7	*1834.4*	1868.2
12.5°	1506.3	1505.1	1517.5	1551.3	1597.5	1650.2	1701.7	1757.4	1840.9	*1873.5*	1915.0
15°	1532.9	1527.6	1528.2	1551.9	1593.3	1655.5	1725.4	1785.2	1871.1	*1912.6*	1965.9
17.5°	1610.5	1601.0	1593.9	1598.1	1621.8	1686.3	1761.5	1822.6	1906.1	*1954.6*	2019.8
20°	1717.7	1712.4	1692.8	1679.8	1685.1	1742.0	1818.4	1875.3	1951.7	*2006.2*	2076.1
22.5°	1861.6	1848.6	1822.0	1801.2	1785.2	1829.7	1900.1	1949.3	2015.1	*2071.9*	2144.8
25°	2039.9	2021.0	1978.9	1946.3	1912.0	1957.6	2020.4	2057.7	2102.1	*2154.8*	2224.1
27.5°	2221.8	2205.8	2159.0	2115.2	2072.5	2100.9	2175.6	2196.9	2192.2	*2230.7*	2289.9
30°	2415.5	2395.3	2350.9	2303.5	2248.4	2266.8	2333.7	2344.4	2294.0	*2326.0*	2366.3
32.5°	2619.8	2600.3	2561.8	2506.7	2444.5	2451.6	2470.0	2480.0	2432.0	*2450.4*	2481.2
35°	2827.7	2809.3	2770.3	2715.8	2670.2	2626.9	2580.7	2621.0	2593.2	*2628.7*	2626.3
37.5°	3017.8	2999.5	2975.2	2933.1	2855.0	2769.7	2663.0	2712.8	2756.0	*2801.1*	2793.4
40°	3146.4	3133.9	3139.9	3133.3	3032.6	2863.8	2703.3	2757.8	2875.7	*2952.7*	2948.5
42.5°	3257.1	3244.7	3279.1	3303.9	3185.5	2950.9	2722.9	2775.0	2952.1	*3072.3*	3066.4
45°	3306.3	3302.7	3359.6	3438.4	3325.3	3043.3	2773.2	2810.5	3010.1	*3164.1*	3141.6
47.5°	3247.7	3260.1	3372.0	3505.3	3441.3	3152.9	2876.3	2885.8	3086.0	*3263.7*	3200.3
50°	3131.0	3158.2	3309.3	3507.1	3526.0	3276.7	3019.0	2995.3	3187.8	*3369.7*	3231.1
52.5°	2961.0	2989.4	3235.8	3493.5	3574.6	3420.0	3209.2	3175.4	3316.4	*3475.7*	3236.4
55°	2570.6	2609.1	3067.6	3462.7	3622.0	3550.3	3423.6	3354.9	3482.2	*3621.4*	3289.1
57.5°	*2230.1*	*2250.2*	*2657.7*	*3325.8*	*3631.5*	*3646.3*	*3576.4*	*3494.7*	*3646.9*	*3779.0*	*3348.4*
60°	1636.6	1641.3	2007.9	2751.9	3340.7	3590.6	3564.0	3442.5	3568.7	*3652.8*	3077.1
62.5°	924.6	925.2	1217.8	1836.8	2495.4	2926.6	2943.2	2836.0	2730.0	*2754.9*	2141.8
65°	347.1	379.7	556.2	902.7	1438.7	1727.8	1796.5	1821.4	1644.9	*1535.3*	1148.5
67.5°	232.2	239.9	324.6	464.4	640.3	739.2	826.9	829.2	606.5	*540.8*	452.5
70°	177.1	184.8	255.3	332.3	324.6	299.7	324.0	315.1	325.8	*334.7*	344.1
72.5°	132.1	139.8	197.8	234.6	194.9	191.9	217.4	241.7	264.2	*273.6*	288.5
75°	87.7	93.6	133.3	125.6	107.8	127.3	158.7	183.0	196.1	*207.3*	218.6
77.5°	55.7	59.8	71.1	57.5	59.8	74.6	92.4	114.3	126.8	*138.0*	143.9
80°	25.5	24.9	24.3	27.2	33.8	43.8	55.7	68.7	78.2	*82.9*	86.5
82.5°	10.1	11.3	12.4	14.8	18.4	23.7	31.4	40.3	48.0	*49.2*	52.1
85°	4.1	4.7	5.3	6.5	8.3	10.7	13.0	18.4	23.1	*24.9*	26.7
87.5°	0.0	0.0	0.0	0.0	0.6	1.2	1.8	3.0	5.3	*5.9*	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	*0.0*	0.0

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Scaled Data Report

REPORT NUMBER: P634541
CATALOG NUMBER: GWS-SA3B-830-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3	1795.3
2.5°	1807.2	1799.5	1812.5	1821.4	1829.7	1820.8	1817.8	1810.1	1808.9	1808.9	1813.1
5°	1823.7	1818.4	1832.0	1837.4	1836.8	1817.2	1805.4	1790.0	1782.3	1782.3	1783.5
7.5°	1853.4	1850.4	1858.1	1849.8	1830.8	1791.2	1752.1	1719.5	1697.6	1686.3	1689.9
10°	1902.5	1899.0	1892.4	1861.6	1807.2	1724.8	1644.9	1585.6	1550.1	1529.9	1531.1
12.5°	1950.5	1944.6	1921.5	1853.4	1741.4	1610.5	1505.7	1439.3	1400.2	1376.5	1371.2
15°	2003.2	1987.8	1938.1	1810.7	1634.2	1470.7	1361.1	1289.5	1247.4	1233.2	1232.6
17.5°	2053.6	2026.3	1936.3	1734.9	1505.7	1324.4	1214.2	1169.8	1162.7	1169.2	1171.0
20°	2104.5	2060.7	1916.7	1630.0	1352.8	1178.7	1121.8	1140.2	1166.9	1184.6	1188.8
22.5°	2157.2	2089.1	1872.3	1495.0	1191.7	1080.4	1104.1	1144.4	1177.5	1201.2	1203.6
25°	2216.4	2115.7	1806.0	1329.7	1062.6	1053.1	1099.9	1142.6	1178.1	1205.4	1210.1
27.5°	2250.2	2116.3	1713.0	1159.8	1003.4	1042.5	1089.9	1130.1	1165.7	1195.3	1200.6
30°	2283.4	2100.3	1565.5	1021.7	986.2	1030.0	1072.7	1110.0	1143.8	1172.8	1179.3
32.5°	2330.2	2085.5	1395.5	942.4	976.1	1018.2	1053.1	1086.3	1112.4	1125.4	1129.0
35°	2388.2	2066.6	1214.8	908.0	969.6	1008.7	1039.5	1057.3	1023.5	1016.4	1024.1
37.5°	2469.4	2048.8	1034.8	893.2	965.5	1005.2	1032.4	986.8	945.3	928.7	934.7
40°	2557.0	2038.7	912.8	881.4	967.2	1008.7	1002.8	935.3	875.4	840.5	839.3
42.5°	2631.7	2023.3	834.6	873.7	972.0	1022.3	962.5	889.7	800.8	780.1	780.7
45°	2682.0	1984.3	793.1	865.4	976.1	1025.3	943.6	826.9	763.5	750.5	749.9
47.5°	2702.7	1913.2	766.5	852.3	975.5	1001.0	905.1	800.8	737.4	733.9	736.2
50°	2689.1	1796.5	739.2	826.9	961.3	975.5	860.6	777.7	719.7	739.2	753.4
52.5°	2638.8	1645.4	706.6	791.9	935.9	946.5	838.1	763.5	706.6	732.7	743.9
55°	2625.7	1522.8	665.2	746.3	897.9	895.0	814.4	756.4	697.7	687.7	689.5
57.5°	*2608.6*	*1403.2*	*596.5*	*664.6*	*802.0*	*806.7*	*791.9*	*748.1*	*674.6*	*671.7*	*674.6*
60°	2266.2	1075.6	531.9	573.4	658.7	684.1	766.5	732.7	637.3	624.9	624.3
62.5°	1480.2	651.5	473.3	499.9	536.6	566.3	698.9	688.3	596.5	588.8	594.1
65°	796.1	464.4	430.6	446.6	466.7	489.3	579.3	613.0	539.0	511.8	512.4
67.5°	406.9	395.1	398.6	409.9	425.3	436.5	467.3	497.0	459.6	436.5	435.9
70°	348.3	357.8	363.1	369.6	379.7	377.9	380.9	386.2	383.2	372.0	371.4
72.5°	296.7	311.6	312.7	313.9	317.5	309.2	303.9	295.0	295.6	297.3	297.9
75°	225.7	239.9	243.4	241.7	245.2	234.6	227.4	218.6	207.9	206.1	207.3
77.5°	146.9	158.1	163.5	162.3	164.1	155.8	152.2	142.7	130.3	125.6	125.6
80°	88.8	95.4	99.5	100.7	102.5	96.5	90.6	82.3	77.0	71.7	71.7
82.5°	53.9	58.0	61.0	61.0	62.8	56.3	51.5	45.6	43.2	38.5	38.5
85°	27.2	30.2	31.4	30.8	29.6	24.3	22.5	19.5	18.4	16.0	16.0
87.5°	6.5	8.3	8.3	5.9	5.9	3.0	1.8	0.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

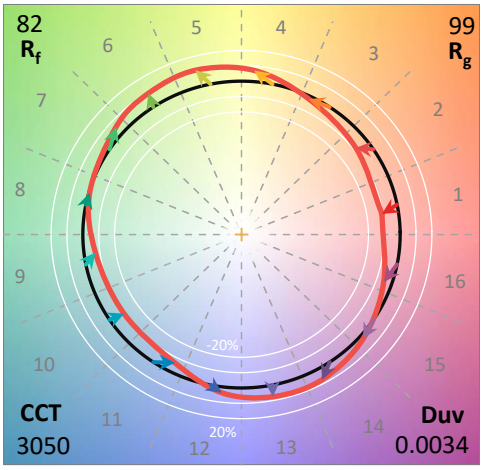
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2408-195-9
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/07/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	MCGRAW EDISON
Catalog Number:	**GALN-SB1A-830-U-5WQ**
Description:	GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

Spectral Parameters

CCT (K):	3050	CRI (Ra):	81.0		
CIE u':	0.2476	R1:	79.6	R9:	7.1
CIE v':	0.5251	R2:	85.6	R10:	67.0
Duv:	0.0034	R3:	92.0	R11:	82.7
CIE x:	0.4383	R4:	82.6	R12:	63.2
CIE y:	0.4131	R5:	78.9	R13:	80.3
CIE z:	0.1487	R6:	81.7	R14:	95.0
Peak Wavelength (nm):	603	R7:	85.2	R15:	71.7
Dominant Wavelength (nm):	581	R8:	62.0		
Purity:	55.55201				

Rf:	81.5
Rg:	99.2



Test Conditions

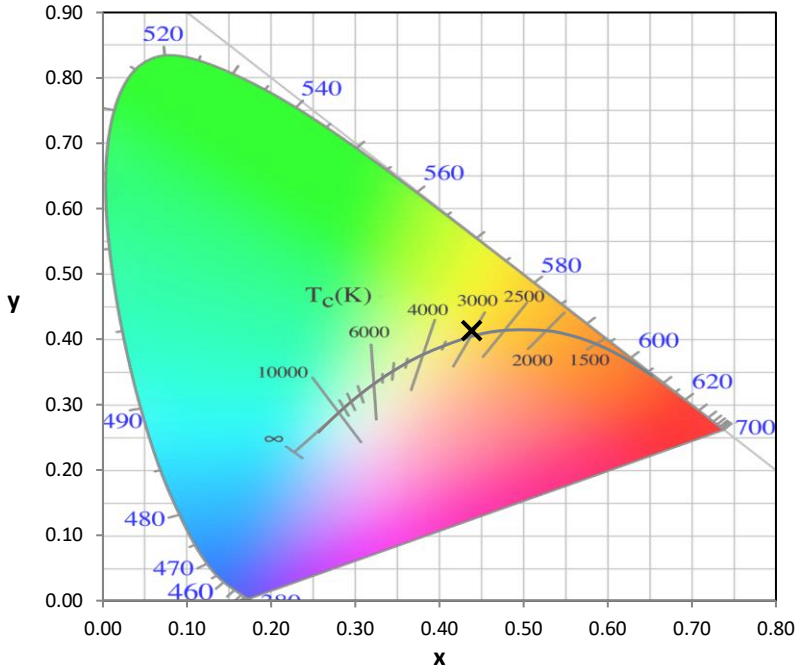
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

REPORT NUMBER: SP1-2408-195-9

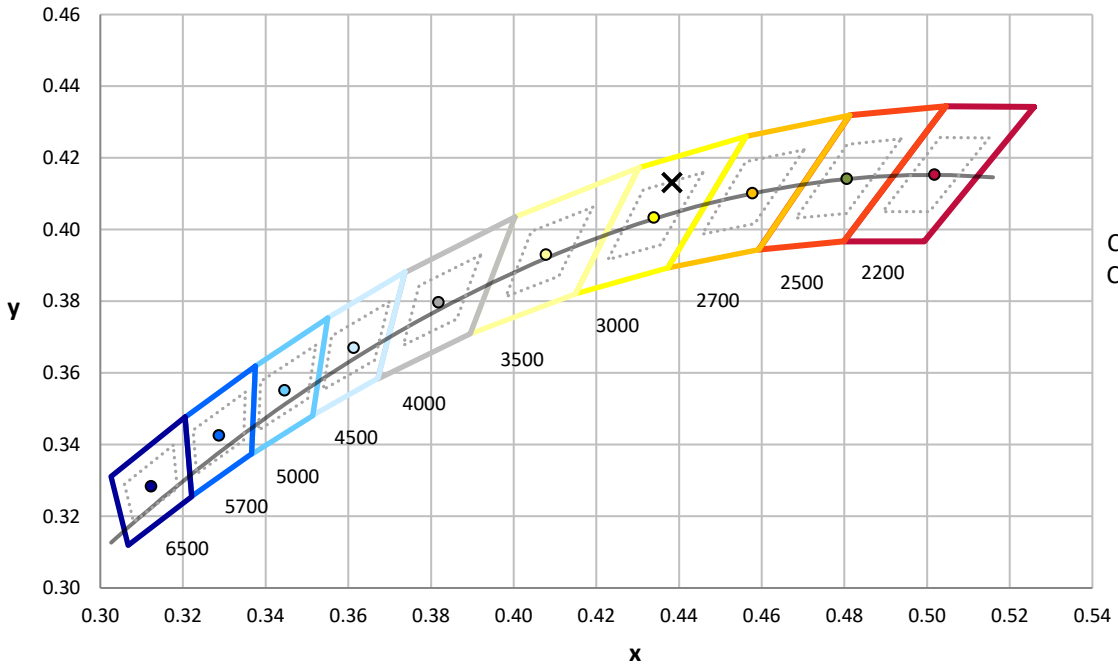
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

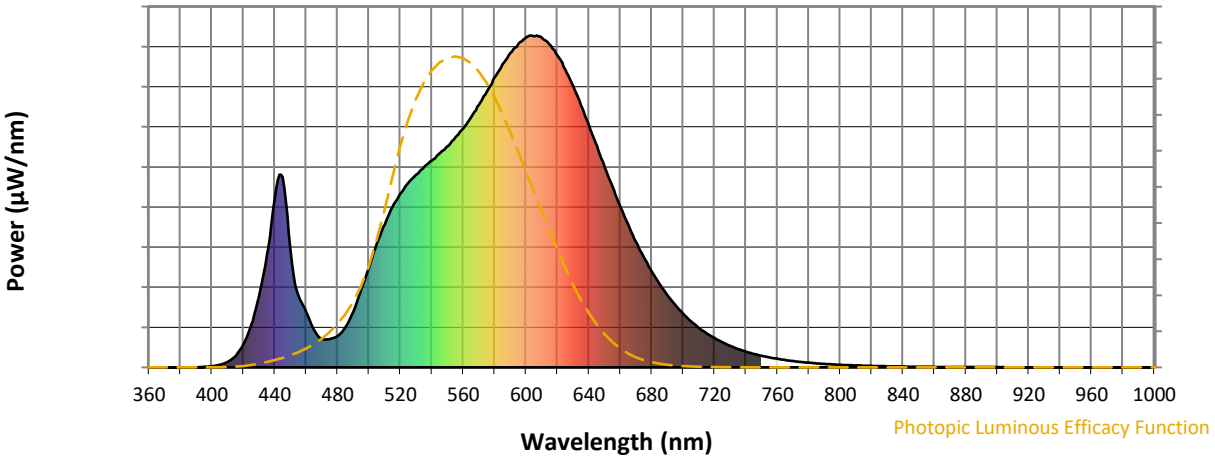


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength



Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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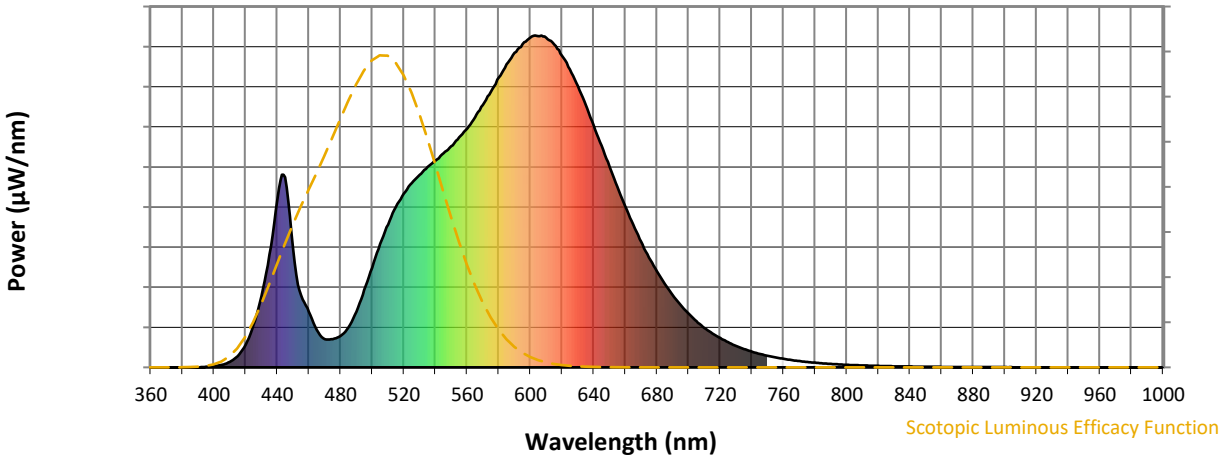
Scotopic Flux vs. Wavelength



Scotopic Lumens: NR **S/P: 1.27**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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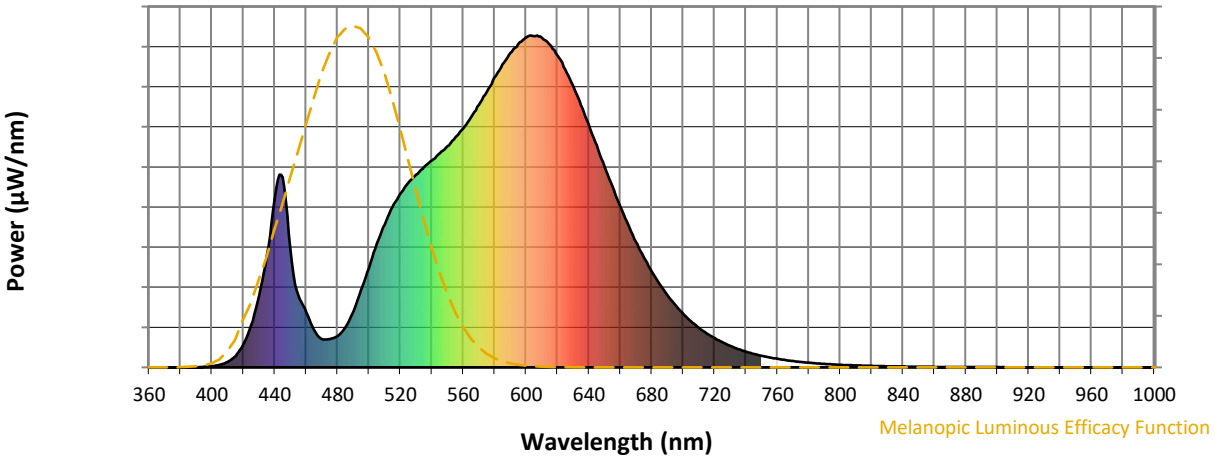
Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.32**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

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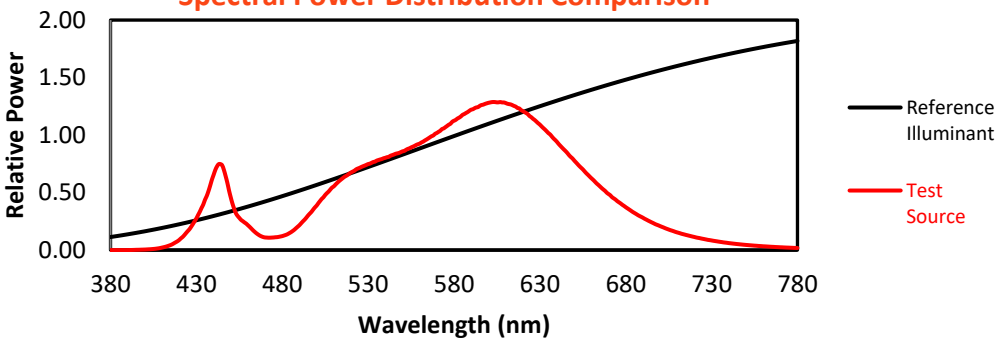
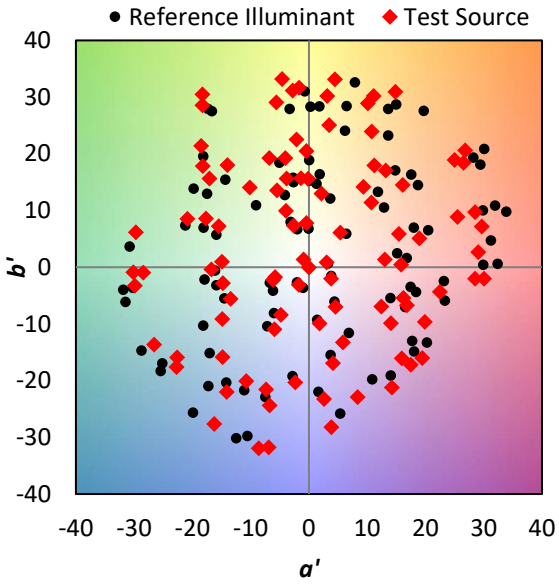
Summary

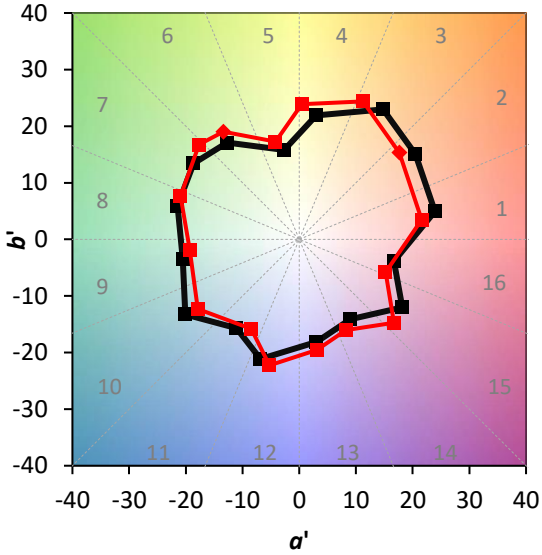
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

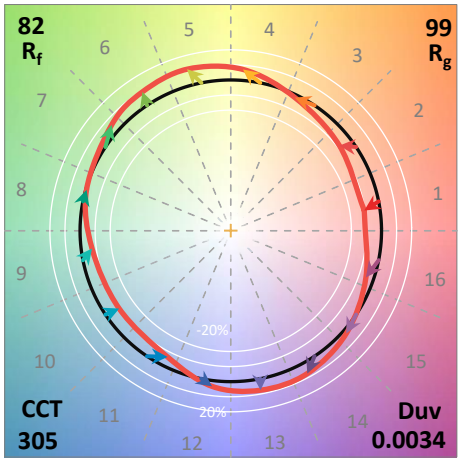
Spectral Power Distribution Comparison

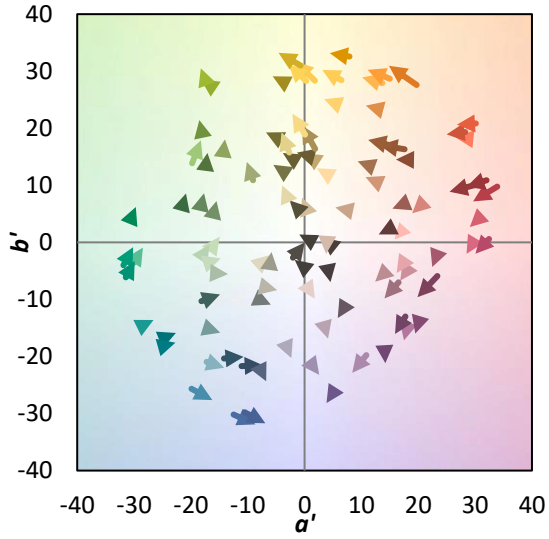


Color Vector Graphics









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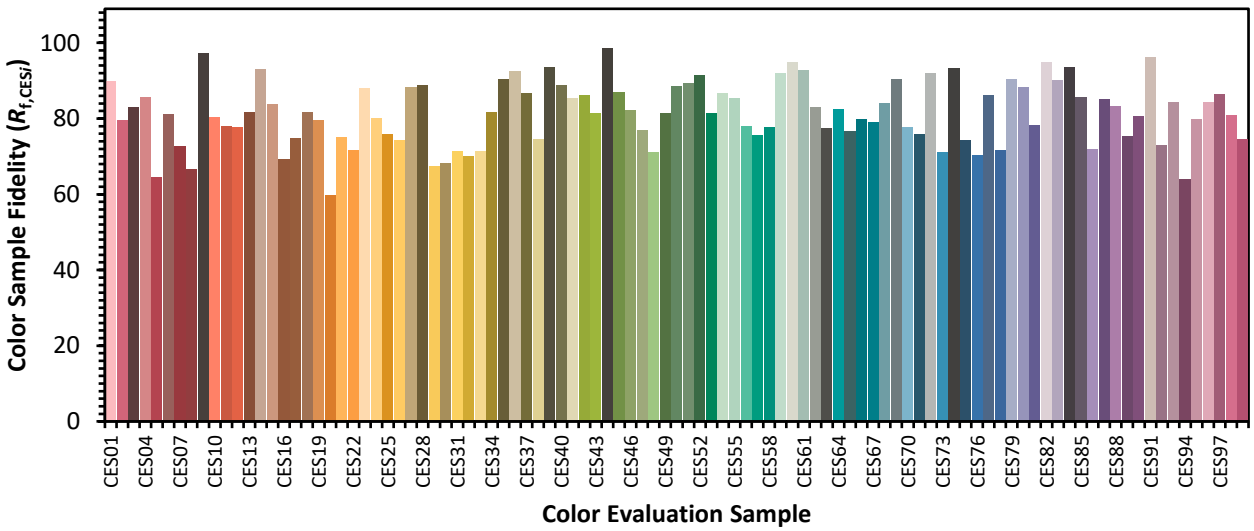
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



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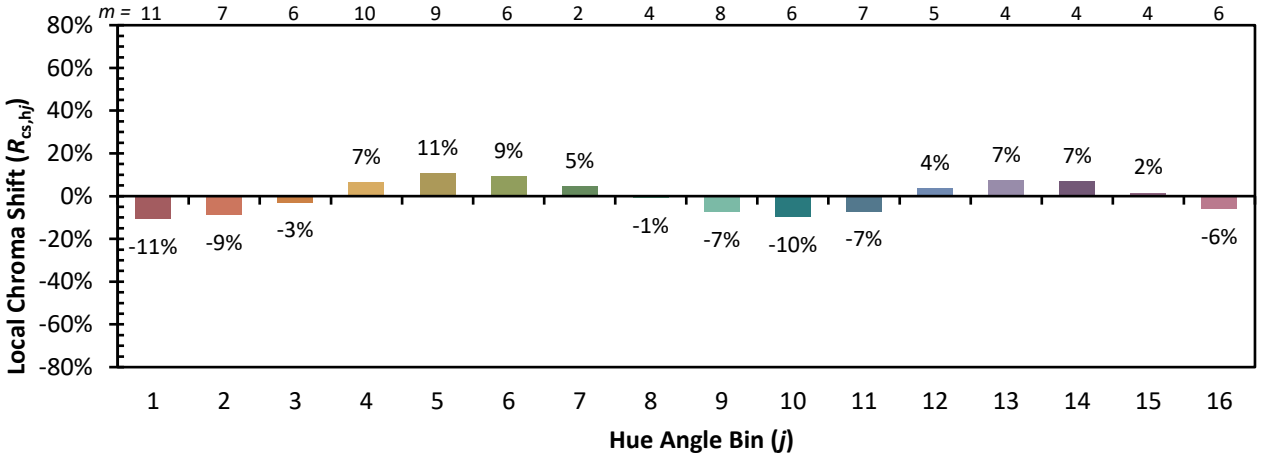
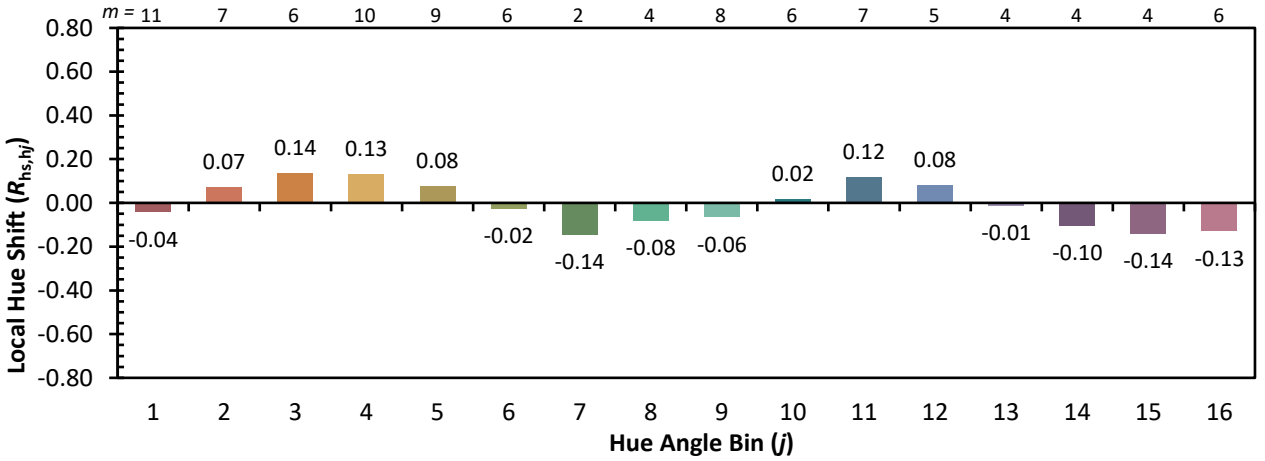
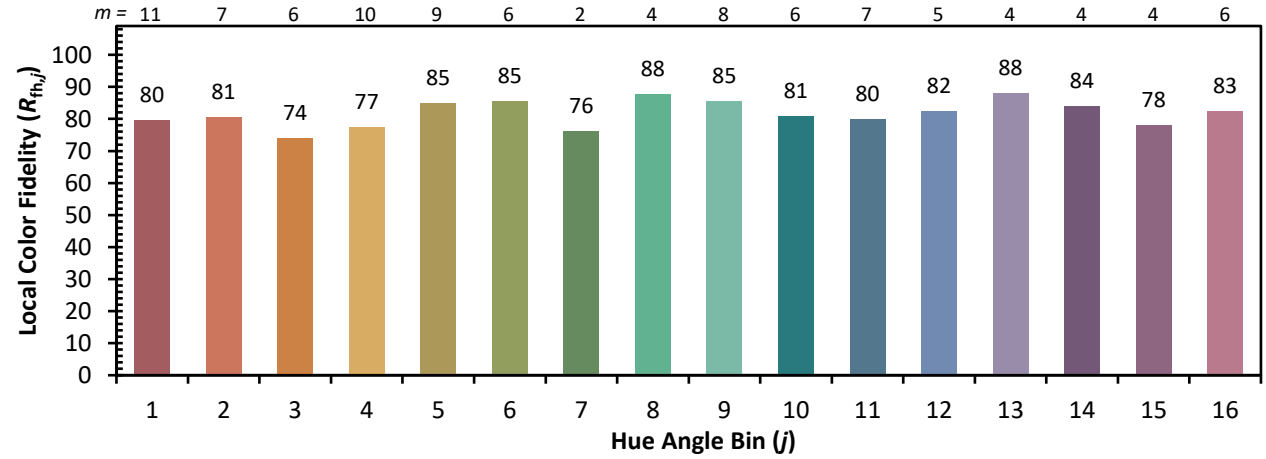
Color Rendition by Hue-Angle Bin







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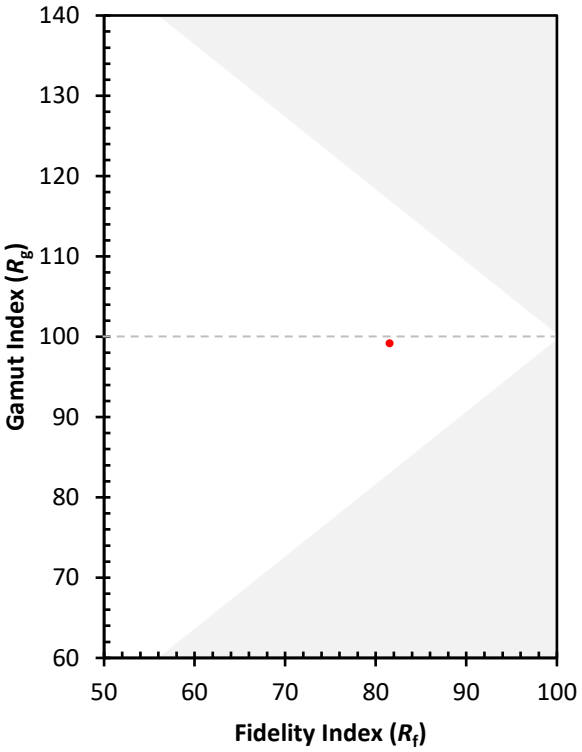
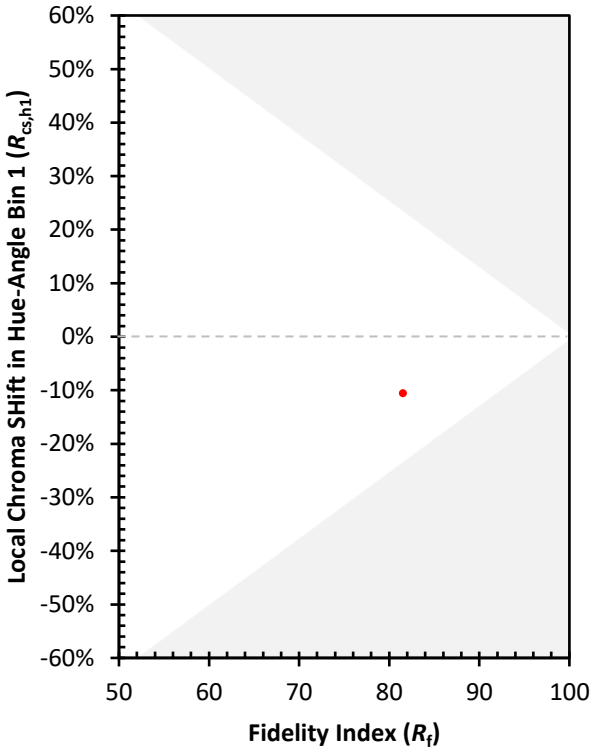
Measure Comparisons





(END OF REPORT)